## CITY OF SANTA BARBARA WATERFRONT DEPARTMENT

## **MEMORANDUM**

**Date:** May 17, 2018

**To:** Harbor Commission

From: Scott Riedman, Waterfront Director

**Subject:** Facilities Management Report

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## WEST BEACH SHOAL DREDGING

Pacific Dredge recently completed dredging of the large shoal located between West Beach and the Federal Channel. The area had been gradually accumulating sand to the extent a large shoal developed with breaking waves at lower tides. The area is popular for non-powered watercraft such as dinghies, kayaks, and paddle boards and the large shoal was adversely impacting these activities. Many vessels transiting just outside the Federal Channel ran aground, necessitating multiple tows from Harbor Patrol during these past few years.

The area was surveyed a couple years ago with an estimated 72,000 c.y. of material available for dredging. A contract was let with Pacific Dredge to conduct the dredging during the spring cycle dredging of the Federal Channel, conducted by the Corps of Engineers. Piggybacking on the Corps' contract significantly reduced mobilization costs and allowed the work to occur during the schedule approved by a multitude of regulatory agencies that permit dredging in the harbor. Council approved a contract with Pacific Dredge in the amount of \$722,000 for the work. After working for approximately 10 days, Pacific Dredge removed over 84,000 c.y. of material from the shoal and the tip of the Rock Groin. The shoal had continued to grow since the prior survey and fortunately Pacific Dredge persisted in removing all of the material they could, exceeding the amount of material removed during the spring cycle dredging for the Corps. The extra material removed is credited towards summer mooring of the dredge.

## MARINA 4 GUARDRAIL AND COBBLE REMOVAL PROJECT

The guardrail on top of the seawall along Marinas 2 - 4 has been incrementally replaced over the past four years to meet current code requirements. The final section between the Marina Four gate and the launch ramp was recently replaced by Shaw Contracting. The Santa Barbara Sailing Center (SBSC) is located adjacent to this section of the seawall. SBSC supports a wide range of boating activities and stores a variety of vessels throughout their facility. Their docks are relatively close to the base of the seawall and they have had issues with shallow water impacting their programs, especially at low tide when some of their docks ground out on the seafloor. SBSC has requested removal of the shallow cobble and silt between their facilities and the foot of the seawall for many years.

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In 2007, the Waterfront contracted with Eveready Industrial Services, to remove the material at the foot of the seawall along Marinas 2 - 4. Eveready used a small conventional dredge designed to remove relatively fine grained material. They ultimately removed a thin lens of sediment overlaying larger cobbles that could not be observed or sampled. The target depths at the foot of the seawall were never achieved and SBSC has consistently requested removal of the remaining cobble material.

The planned replacement of the guardrail between Marina Four and the launch ramp presented an opportunity to remove the cobble material with conventional earth moving equipment working from the top of the seawall after the old guardrail was removed and the new guardrail installed. Staff developed plans including the limits, dimensions, and volume calculations of the cobble removal. Removing material from within the harbor is allowed under the Waterfront's Sediment Management Plan and removal of the cobble was approved by all the permitting agencies.

Shaw Contracting used two small excavators to remove the cobbles and load them into small trucks staged on the sidewalk. Each truck load was taken to West Beach and stockpiled until all the cobble material was removed. It took Shaw two days to remove over 150 c.y. of cobbles from the base of the seawall increasing the depth by approximately 3' along the entire length of the project. Although an increase in depth of 3' doesn't seem like much, it's a vast improvement over previous conditions and will allow SBSC to operate their programs more efficiently.

Prepared by: Karl Treiberg, Waterfront Facilities Manager